



THE RARA RAG

Newsletter of The Rochester Amateur Radio Association, Inc.
Founded in 1931

APRIL 2021
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OLD TIMERS NIGHT ONLINE MEETING AND PRESENTATION

BRIAN O'CONNOR, KA2CGB, RARA VICE PRESIDENT

Please join us for our monthly membership meeting on Wednesday, 7 April at 7:00PM ET.

The RARA meeting in April is traditionally **Old Timers Night**. A feature article in last month's *Rag* highlighted past RARA presidents. We are inviting all who have been hunkered down to join our online meeting for a chance to check in with old friends.

This month's presentation is **A History of the Transistor** presented by Lynn Bisha, W2BSN. Lynn will explore the transistor from its inception up to the production of the first solid-state Amateur Radio transceiver.

Lynn was first licensed as WN2CLT at age 16. Both of Lynn's parents were hams; W2BSN had been his father's call. He served in the U.S. Navy as an avionics technician, which led to a 36-year career supporting mainframe computers.

Lynn has been involved with the Antique Wireless Association (AWA) since 2005, where he currently serves as a trustee of the AWA and as curator of the AWA Museum in West Bloomfield (for more information see <https://Antiquewireless.org>). He is a director of RDXA, and is a member of RARA, the ARRL, and the Radio Club of America. Lynn and XYL Eileen live in Penfield.

To register for the meeting, visit https://rochesterham.org/club_meetings.htm. Please arrive a little early to ensure you are completely set up. Hoping to see you then!



K2JD

N2EH

W2EOC

RARA



BOARDZ BUZZ

MIKE MOORE, KC2NM, RARA PUBLIC SERVICE COORDINATOR

There is a lot that is good about our ham radio club that we call RARA. We are one of the largest clubs of its kind in the northeast with nearly 500 members locally and a growing membership in other parts of the country. The club has maintained a vibrant number of programs even with the social distancing constraints of the Covid-19. In this month's "Board Buzz" article I want to explore some of the behaviors of our club that has helped it thrive and has enabled me to grow as a club leader.

RARA is an ARRL Affiliated Club. Requirements for becoming an affiliated club are found at the [ARRL Website](#). Our club's purpose and organization is closely aligned with those of the ARRL, the world's largest Amateur Radio Association. The organization of our club's by-laws closely follows the sample club constitution recommended by ARRL as is the structure of our club leadership and officers. I would argue that one of the reasons for RARA's strength as a club results from its strong foundation provided through its affiliation with ARRL.

The leadership of RARA makes a real effort to act with transparency and to seek engagement of the membership. This effort is exhibited in the monthly meetings, [rochesterham.org](#) website, RARA Rag newsletter, Facebook pages, and the [RochesterHam groups.io](#) site. There are a variety of two-way communications options between members and with the leadership. Through all of these vehicles it is pretty easy for members of the club to know what is going on and to pick and choose how they want to be involved. I have been involved with RARA as a member, public service event co-captain, public service coordinator, club director, and now club Treasurer.

When I served as a RARA director, I had the opportunity to fill a vacancy as club secretary for a few months. What I learned in that position is that much of the guidance for club programs is provided in the agenda and minutes for the board of directors meetings. The way that this works is that the meeting agenda is built from a prototype agenda each month. The prototype agenda lists all of the program items and responsibilities by month as well as listing many decisions of the board regarding how an event was conducted and various funding decisions. During the meeting, the minutes are recorded with the agenda items. As the agenda / minutes continue month to month then year to year a record of the club progress and direction is created. I used this record to learn how the club operates and what is expected of the club leadership. I believe that having this roadmap makes it possible for a member to move into a leadership position and become quickly effective.

In order to keep fresh ideas coming into the club I believe that we need a progression of new leaders coming into the committees and leading activities. Each of our members has a lot to offer to the club. I urge you to take a look at the activities listed in the club calendar, either online or in the rag. If you can find something that interests you, please consider contacting a committee leader, board member, or officer to find out how you can become further involved. As we start to begin to have more face-to face activities there are many parts of our

program that will need to be refreshed. I know that there are ways that you can help

CALENDAR OF EVENTS

WEDNESDAY APRIL 7, 2021 - RARA General Meeting
7:00 PM - ON LINE

<https://attendee.gotowebinar.com/register/5971661369422877451>

THURSDAY APRIL 8, 2021 - RARA Board of Directors Meeting
6:30PM ON LINE

Email request for link to secretary@rochesterham.org

SATURDAY APRIL 17, 2021 - VE Testing



EDUCATION

TIM BROWN, WB2PAY, EDUCATION COORDINATOR

RARA LICENSE COURSES

THERE ARE NO SPRING OR SUMMER LICENSE CLASSES

- For those studying on their own, License manuals are available for \$25.
- Study aids and reference materials are available upon request at:
education@rochesterham.org

ELMERS CORNER

During this Covid Isolation period, with no Elmers at meetings, no hands on Academy workshops, no visits to ham shacks, etc, resources for asking questions and gaining experience are limited.

RARA has established a ZOOM ELMERS CORNER on the first Saturday of the month

The next Elmers Corner will be on April 2nd at 10am. Questions and discussion topics may be submitted ahead of time which will help Elmers have appropriate answers to inquiries.

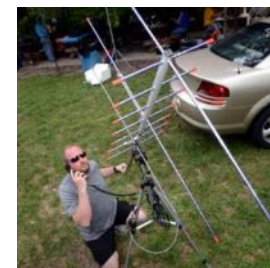
RARA Elmers and Instructors have a wealth of experience to share with our Ham community.

Register for the ELMERS CORNER and submit questions by emailing education@rochesterham.org

RARA ACADEMY WORKSHOPS

April 10th - EME MOON BOUNCE & SATELLITE COMMUNICATIONS

- Similarities and differences of Satellite communication and EME
- Satellite information
- Software and equipment for Satellite communications
- EME information
- Software and equipment for EME communications.



Presenter: Larry Keene, KD2LGX

Saturday May 22nd 11am to 4pm HANDS ON OPERATIONS

"I have my license, what do I do now?"

License Classes prepare us for passing the FCC exam.

Newly licensed and upgraded Hams want hands on experiences.

RARA has reserved an open shelter in a local park for a skills and operating event.

Due to Covid restrictions, participation is limited to 35 attendees. Register at education@rochesterham.org

Covid precautions such as masks and appropriate distancing will be required. Masks will be worn except if transmitting using a microphone. Hands will be sanitized before handling any equipment.

ACTIVITIES:

- Antenna installations - Dipoles, Verticals, J-Poles
- Antenna Analyzers, Watt Meters, Dummy Loads
- HF Station operations
- Antenna Tuner adjustments
- QRP Station operations
- VHF operations

MORSE CODE TRAINING

The RARA XRX CW Group assists Hams wanting to learn Morse Code or to develop their CW skills.

BEGINNERS MORSE CODE ZOOM CLASSES

Peter Fournia, W2SKY, hosts Morse Code classes on Thursday evenings 7pm.

No experience required.

Join the group at any session.

Register at: pfournia@gmail.com

MORSE PRACTICE FOR ALL LEVELS ON ZOOM

Tim Brown, WB2PAY, hosts code practice for all levels on Wednesday evenings at 7pm.

Register at: education@rochesterham.org

MORSE PRACTICE ON AIR

W1AW - <http://www.arri.org/w1aw-operating-schedule>

RXCWG

Tuesday 4pm 50.250 MHz

Tuesday 8pm 50.250 MHz

Thursday 11am 7.053 MHz

Friday 11am 3.553 MHz

To set up a cw sked, contact

Peter at pfournia@gmail.com or

Tim at education@rochesterham.org

PUBLIC SERVICE REPORT

MIKE MOORE, KC2NM, PUBLIC SERVICE COORDINATOR

I have very new information about the Bike MS Event and it looks like good news. There is an event scheduled on the [National MS Society website](#) for Saturday, August 21. It appears that Bike MS: ROC the Ride and Bike MS: Buffalo Great Lake Escape are combining for an all-new Bike MS: ROC the Great Lakes experience! The event announcement mentions the location as Waterport in Orleans County. We do not have a route map or even an invitation to participate at this point but we will contact them and see what opportunities exist for RARA to be of service. The only information that we have about the route is, "Start at Lakeside Beach and ride along Great Lake Ontario, across the Erie Canal and through the oak orchards of Western New York"

Mark, KC2UES is staying in touch with the Fairport Crew Club regarding the Fairport Liftbridge Regatta. As of this writing, there is not yet a date on either the local or regional regatta website for it.

I will continue to track these events and report any updates that I learn about. For up to date information about all of our Public Service events take a look at our RARA website https://www.rochesterham.org/public_service.htm.

Please mark your calendars for our upcoming RARA Public Service Events

Bike MS: ROC the Great Lakes	Waterport in Orleans County	Saturday	Aug. 21, 2021
Fairport Lift Bridge Regatta	Erie Canal – Fairport, NY	TBD	TBD
JOTA (Verify CTC Date)	Camp Babcock Hovey	Saturday	Oct. 16, 2021
Pumpkin Patrol	Overpasses of the New York State Thruway	Saturday & Sunday	Oct. 30-31, 2021
Holiday Science & Technology Days	Rochester Museum & Science Center	Monday - Wednesday	Dec. 27-29, 2021

ATTACK OF THE (TINYSA) CLONES

KARL HEINZ KREMER, K5KHK

I few months ago I wrote about the TinySA and followed that up with an article about how to check the output signal of a handheld transceiver. The TinySA is a relatively new product, but nevertheless, it's been cloned already. The problem with the clones is that they do not work correctly.

One of the premier sources of information about the TinySA is the groups.io group dedicated to it: <https://groups.io/g/tinysa>

Over the last few months, the group saw more and more reports about people falling for a clone. The first clones were easy to spot: Labels had typos, and no serial number was provided. Even when these signs were not obvious, one of the first indications when using a clone was that the self-test of the device would fail: The instructions to calibrate the device asks you to first run a self-test. This tests the internal connections, the programmable attenuator, and the accuracy of the device. If that fails, then all bets are off regarding the quality of our measurements. Since people caught on to these failing self-tests, the cloners have upped their game by installing software that claims to pass the tests, but when you then upgrade the software (there are frequent updates with new features and bug fixes), you will run into the self-test problem again. So even if the first test succeeds, that is not an indication that you've purchased a genuine TinySA.

There is only one way to avoid problems, and that is by purchasing from a trusted source. The TinySA web site has a list of these trusted sources, both from China, but also from within the US:

<https://tinysa.org/wiki/pmwiki.php?n=Main.Buying>

If my article (or all the other articles that are showing up in a lot of places, like in QST magazine) piqued your interest in a TinySA, make sure that you know where to get a genuine device. It's not worth saving a few bucks, only to find out that you have a device that does not work at all, and then having to deal with how to return the clone and get your money back.

PROFESSOR'S PIC(K)S

JEFF SONSTEIN, KD2RRB

[Feeling Twitchy?](#)

[For The Musically Inquisitive](#)

[How Does The Frog Fly?](#)

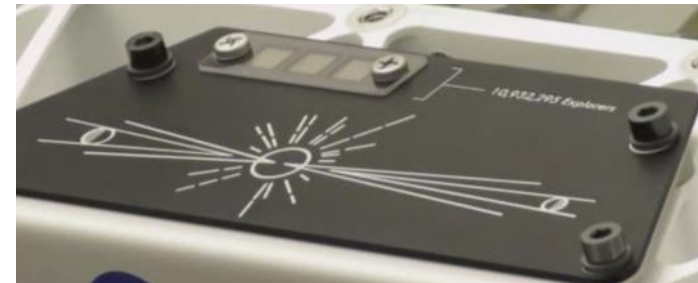
[Malware Archaeology](#)

[Skywave Schedules](#)

[LC Meter](#)

[3D Printing Project](#)

[Temperature Humidity Sensor](#)



From Perseverance "Explore as One"

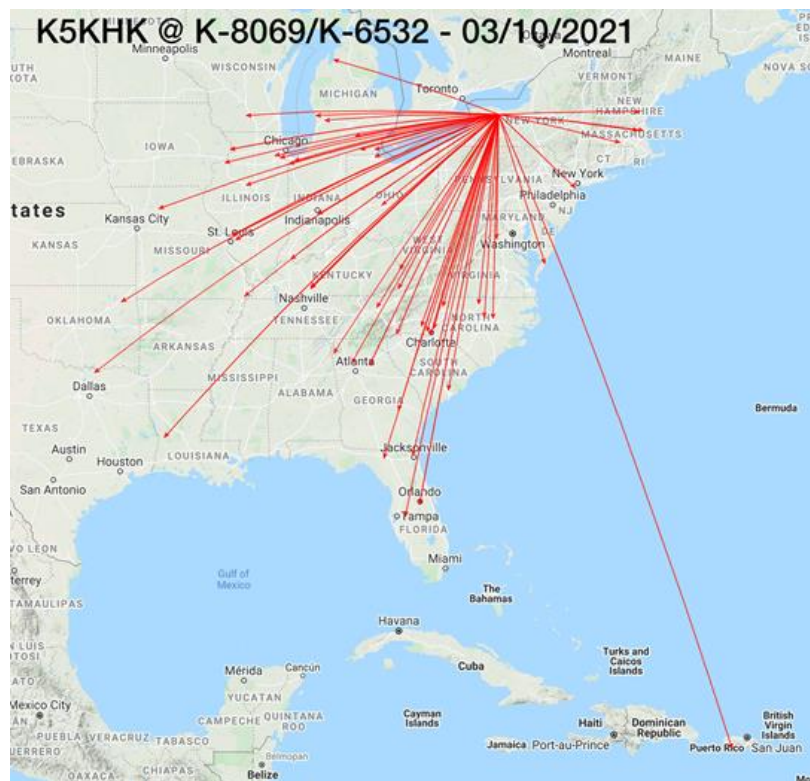


Courtesy April 1954 QST

CREATE QSO MAPS

KARL HEINZ KREMER, K5KHK

Have you seen maps that show where QSOs originated from? Here is an example from a recent POTA activation I did:



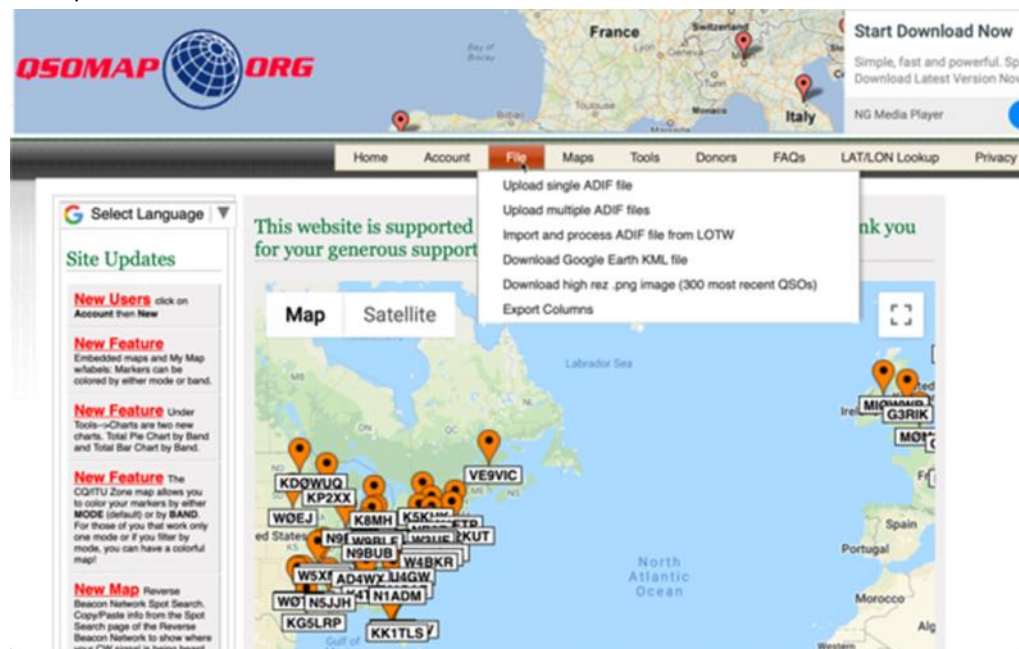
This is an interesting way to get an idea about propagation, and directionality of an antenna. It also shows the skip zone. So how does one create such a map without having to place the arrows manually?

I create these QSO maps using the [qsomap.org](https://www.qsomap.org) service. Let me show you how you can also create such maps. Qsomap.org does many different things, and it's worth spending some time exploring the different type of maps you can create, but for now, we are interested in one specific map type, the "Polymap". The first step is to create an account. Keep in mind that you get to use this service for free, but it costs money to make the web site and the software available, and to pay for internet bandwidth, so please consider donating a few bucks with PayPal. After the account is created, you are ready to upload your QSOs. This is done with an ADIF (Amateur Data Interchange Format) file that can be uploaded. These files can be created with your logging software. If you are not yet logging electronically, an easy way to enter QSO data and export to ADIF is

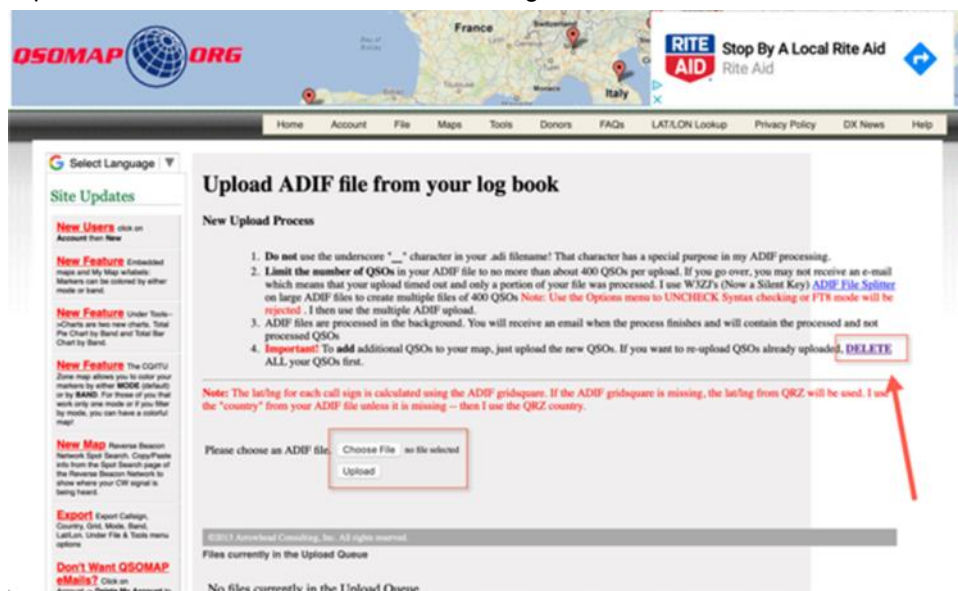
the "Fast Log Entry" software (<https://www.df3cb.com/file/>).

We are interested in a map with lines, going from the operating location (which in my case is usually a POTA activation) to the locations we had contacts with. This is done using the "Polymap" feature.

Qsomap.org keeps all uploaded QSOs unless you deliberately delete the QSOs associated with your account. This is for when you just want to add all your QSOs on one map, and with every upload you end up with more arrows, but for a map for e.g. a POTA activation, or the QSOs you had during a contest, we want to delete all QSOs that may already be in our account from a previous upload.



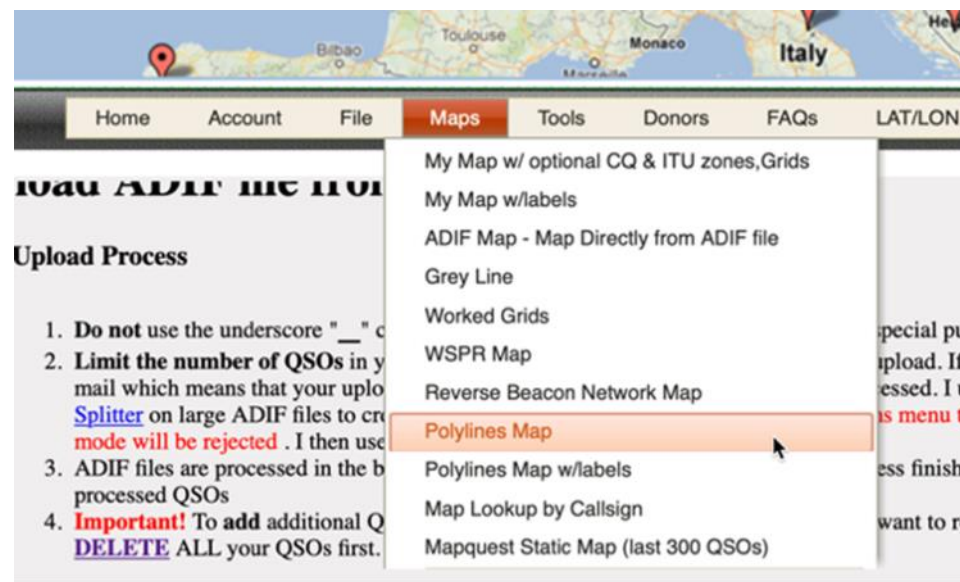
The upload function is accessed via "File>Upload single ADIF file". Before we upload a file, we select to delete the existing QSO information:



After confirming that we actually want to delete the list of QSOs, we need to select the upload function again. This time, we can pick the ADIF file and select to upload. Based on the information on the site, it should not matter if the ADIF file uses .adif or .adi as it's extension – however, my experience is that only .adi works, so if your logger exports .adif files, you need to rename them first. The logging program I use on my Mac uses the four letter extension.

After the upload finishes, the map data is not yet available. Depending on the load on the qsomap.org server, it may take a while until the confirmation email arrives. When you try to display the map before the email arrives, you may get no QSOs on the map, or just a partial map. You can check the queue by going to the upload function again.

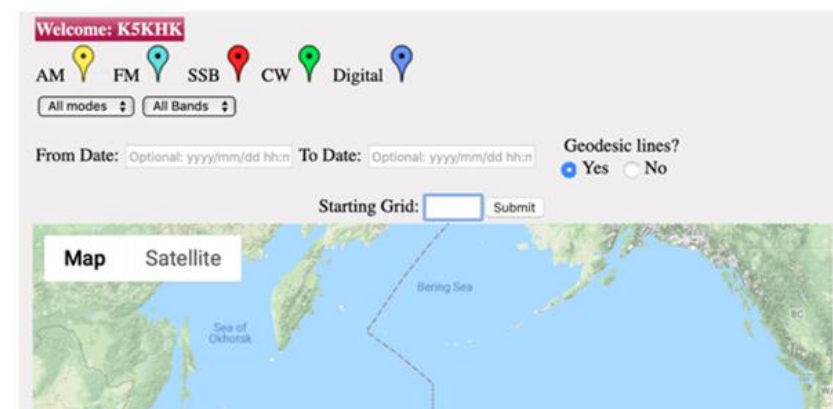
Assuming the map data is available, the next step is to display the map by selecting Maps>Polylines Map (or Polylines Map w/labels if you want to see the callsigns at the end of the arrows). Qsomap.org will use the grid data from the ADIF file if you've saved that with your QSO records, and if that does not exist, the location provided by QRZ.com for a given call sign to place the arrow on the map. Our location needs to be specified on the page that opens when we select to create the map.



The lat/long for each call sign is calculated using the ADIF gridsquare. If the ADIF gridsquare is missing, the "country" from your ADIF file unless it is missing -- then I use the QRZ country.

Enter the location from where you operated as a six character grid square. If you don't know the grid square, you can look it up for example on this site:

<https://dxcluster.ha8tks.hu/hamgeocoding/>



After that, it's just a matter of potentially moving the map around so that the arrows are visible, and to zoom in so that the part of the map we are interested in is as big as possible, so that when we take a screenshot, we get the best possible resolution.

I usually load the screenshot into Photoshop and apply a label with the park reference and the activation date in the upper left corner – just like in the first image in this article.

Give it a try, it makes impressive maps.

MY 3D JOURNEY OR BUYING A 3D PRINTER

FOREST SHICK, WA2MZG

I've been intrigued by 3D printing for many years. At first it was just a novelty – gee that's nice! Then it became a bit more real when a friend purchased one and I saw the capabilities. Still, the thought had to sit and ferment for a while.

A few weeks ago, the aging was over. I began researching (watching YouTube videos) and reading a few blogs about ham radio “stuff” that mentioned 3D printing of cases. The result was that I decided to go for it – buy a 3D printer.

First – why would I buy a printer? Do I have a need? A plan? A desire? All good questions and I should answer them first. I came up with four basic answers:

1. Learning to design in 3D from concept to plastic model.
2. Downloading and printing toys for my grandkids.
3. Making cases and tools for my own projects.
4. Downloading and printing cases for ham radio projects.

You may find other reasons, but I felt knowing where I was going was an important step.

Next – how do I design my own ideas. The search began. I found a few 3D mechanical design software packages and settled on these three to evaluate:

- FreeCAD
- DesignSpark Mechanical
- Fusion 360 Personal



I downloaded each package, watched hours of instructional videos, and tried to follow the videos and build my own objects. I viewed and reviewed the videos to be sure I understood the concepts. Each package had pluses and minuses.

I selected Fusion 360 Personal. In my humble opinion, it is better designed, better documented, the instructional videos are incredibly good, the operation of the software was much more intuitive.

It does have a few issues. The projects are stored in the cloud. You cannot print out drawings or I have not figured out how. You can only have 10 active projects. (You can have more than 10 projects; only 10 can be active.)

It has one bonus feature; it includes schematic and PCB layout tools!

After wading through all this research, I selected the Creality Ender 3 V2. It is capable of printing an object that is approximately 8.5" x 8.5" and 9.75" high.

A word of caution – printing takes time. Not minutes. For example, a case made in 2 halves with a total outside dimension of 6" x 3" x 1.5", with minimal detail: bottom half printing time was 7 hours and top was 5 hours.



This nameplate took 40 minutes. The item on the right took 70 minutes.

I ordered the printer and some filament and then continued learning to use Fusion 360.

The printer arrived nicely packaged.



Each type of hardware was individually packaged and labelled.

All the necessary tools were included.

The assembly manual is poor. Luckily, there are excellent videos that walk you through the assembly process.



This link is the video I followed. It is from Tomb of 3D Printed Horrors.

<https://www.youtube.com/watch?v=JTN6jtB5mqk>

Following the video carefully and stopping the video at each step, assembly time was about 1 hour.

Initially I watched the video for the Ender 3 and then the Ender 3V2. Each video had some good explanations that were not in the other video but do not build the 3V2 by watching the video for the 3! They are close but not the same.

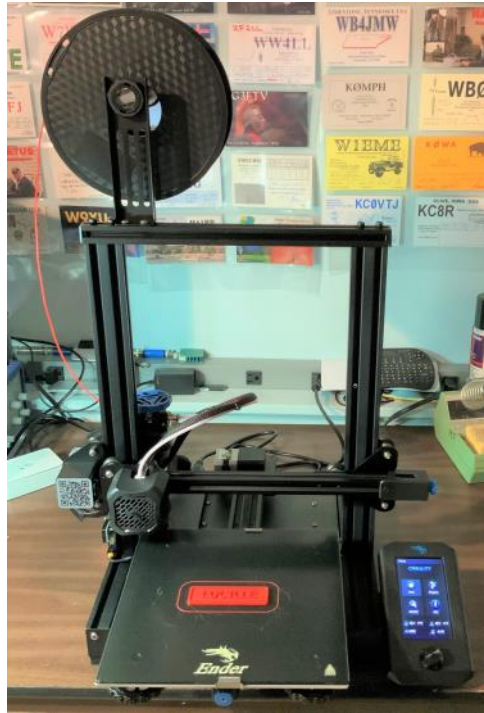
There is also a video on bed leveling. This is the process of aligning the extruder nozzle and the bed so that the same quality line is printed at any point on the bed. Oh, objects are made from lines, very, very small lines!

https://www.youtube.com/watch?v=4JSa_r8xgX8

You keep adjusting until the lines and the squares are “identical”. Not too hard, just takes time and patience. See the picture below.



how the layers are printed. The nameplate pictured earlier has 25 layers. It is only 0.2” thick.



Now I had my printer and my design software. There was one more piece of software necessary. Software that takes the 3D drawing and “slices” it into very thin layers. The printer then prints one thin layer at a time.

I downloaded CURA.

<https://ultimaker.com/software/ultimaker-cura>

Cura is interesting software. It shows you how many layers, the expected printing time, the amount of filament required, and you can watch a pseudo video of

Finally, do not forget to buy some filament. You receive filament with your printer but it is used up quickly doing test printing. Be sure to research filament.

Just to be clear – this article is based on my experience with the tools and supplies I purchased and the videos I watched. Other vendors and videos will most likely be different. Please do your own research! It is a learning experience.

Here are some of the resources that I used.

Finding a printer - read blogs and reviews .

<https://www.youtube.com/watch?v=OomRF6pKh2k&t=15s>

3D Software

<https://www.freecadweb.org/>

<https://www.rs-online.com/designspark/mechanical-software>

<https://www.autodesk.com/products/fusion-360/personal>

<https://www.tinkercad.com/>

<https://www.sculpteo.com/en/glossary/sculptris-definition/>

<https://www.blender.org/>

Tutorials

<https://productdesignonline.com/fusion-360/>

<https://www.youtube.com/watch?v=me8Qrwh907Q&t=3s>

<https://www.youtube.com/watch?v=JTN6jtB5mqk>

<https://all3dp.com/>

<https://www.thingiverse.com/>

<https://academy.autodesk.com/course/129267/introduction-cad-learn-fusion-360-90-minutes>

<http://www.emcu.eu/configure-ultimaker-cura-software-for-use-the-creality-3d-printer-model-ender-3/>

<https://www.youtube.com/watch?v=A5bc9c3S12g&t=4s>

<https://www.youtube.com/watch?v=T-Z3GmM20JM&t=13s>

Search For Videos By

BV3D: Bryan Vines

Lars Christensen

thehardwareguy

Product Design Online

Tomb of 3D Printed Horrors

Teaching Tech

RCwithAdam

RARA's NEW FACEBOOK GROUP

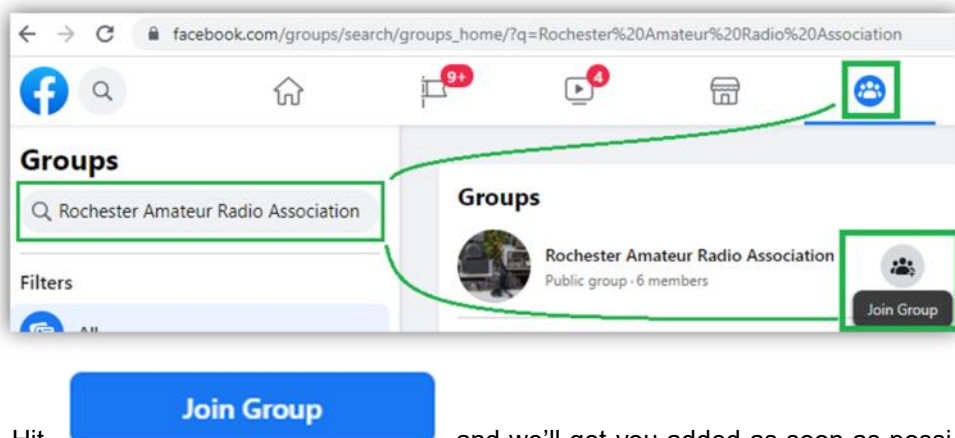
TIM GUYOT, KB1POP, RARA DIRECTOR

Many of you follow the RARA Facebook page where we post announcements, but we've found that it's not a great way for the club members to engage each other – Member posts are in a “community” section that people have to click on to see. To remedy this, we have created a Facebook group where member posts will be on the front page.

You can find the group here

www.facebook.com/groups/rochesteramateurradioassoc/

or you and search for us like this...



Hit **Join Group** and we'll get you added as soon as possible. Once you're in, tell us something interesting you've done, or ask a question – I'm sure the RARA community is ready to help.

Please keep posts on-topic – Radio and related STEM topics – and please do not post items for sale; there are many other places to do that and we're trying to keep the group focused on dialog.

The RARA page will continue to be used to post announcements and as a way for people to contact the club, but we hope this new group will be more valuable to the membership.

BYLAWS UPDATE

TIM BARRETT, K9VB, RARA PRESIDENT

As I mentioned in my February Boardz Buzz, the RARA directors have been taking a look at the club bylaws. These matter, as we are a registered non-profit, so we need to make sure our rules are documented and followed. The official version was a typed document from 1969 that had been scanned into a computer system as a pdf. Back in January we replaced this with a fully searchable Microsoft Word document and both that and the original are on our website. Only the presentation changed, the content is exactly the same.

This searchable document still included the various amendments that had been made as addenda at the end of the document. We have now taken these amendments (from 2008, 2010 & 2011) and incorporated them into the main body of the text. Again, the meaning of the Bylaws has not changed but the document is now more readable and much easier to use. That version was approved at the RARA Board Meeting of March 4th, 2021 and all versions are available on our website as a pdf [here](#).

We are now ready to move on the next stage to bring our Bylaws into the 21st century. We will be adding references to communication by email and to holding meetings online for instance. If you have suggestions of other changes you would like to see, you can email them to me at president@rochesterham.org for consideration. Of course, all members will have an opportunity to approve the final revised version in a vote at one of our general meetings before adoption.

Silent Key

Dale Foster
KB2HYQ
November 14, 2020

Silent Key

David O'Brien
WA2YFL
March 13, 2021

BANDPASS FILTER CAMPAIGN REACHES TARGET IN ONE MONTH!

TIM BARRETT, K9VB, RARA PRESIDENT

Some people said they would like to have a way of giving membership points back to the club and so we came up with the idea of a campaign to use points to purchase bandpass filters for RARA's outdoor events.

One member had already very kindly offered to donate sufficient points to purchase a 40 meter bandpass filter so that we can operate more than one radio on that band. We therefore asked members to donate points so that we could also purchase a 20 meter band pass filter.

What a great response! With one final donation at the March meeting we hit our target of 280 points in just one month! Thanks to all those who donated, your contributions are greatly appreciated!

We lost no time in ordering the two units from DX Engineering and they have now arrived, pictured below. Before being used they will be labelled with the callsigns of the contributing members so that their donations are remembered.



These filters will certainly be put to good use and they are already reserved for three public events this coming summer (the RARA Picnic, International Light-house Weekend and a RARA Academy Operating Event). Thanks again to all our donors!

RARA ASSISTS SCHOOL PROJECT

As a Mom I'm just reaching out to let The Rochester Amateur Radio Association know your RXCWG Morse Code page was a big help to my daughter Payton and a school project she's working on.

Due to COVID-19, Payton's school has moved all their work to virtual classrooms online. It's been quite the transition for sure this year, but I'm doing my best to help Payton with her homework to ensure she doesn't fall behind!

I'm currently helping her with a 'Famous Inventors and Inventions' project she's working on for her history class. Every day they learn about a new invention or technology that changed history. At the end of the week they are required to write a paper about what they learned, and how it impacted society. It's been fun for both of us! Your page led us to some great Morse code websites to check out, so Payton and I wanted to make sure we thanked you :)

And if it's not too much trouble, could you add another link to your page? Payton found this guide which I was impressed with! It was neat to see how Morse code and the telegraph changed the history of communication. This is it....

<https://www.emissary.ai/telegraph-morse-code-text/>

Can you add it on here, under Resources?

<https://www.rochesterham.org/rxcwg.htm>

I'd love to show Payton and her teacher! It's always nice getting some recognition for a job well done. And perhaps Payton will even get some extra credit from her teacher if I show him? Brownie points would be great with the next report cards coming out shortly!

Let me know if you get a chance to add it! The project is due on Monday! I would really appreciate it :)

NOTE: The link referred to in this article has been added to our web site on the RXCWG page.

RAGS OF THE PAST

ED GABLE, K2MP, RARA HISTORIAN

20 Years Ago, April 2001

This month, RARA Vice President and Program Chairman, Peter Fournia W2SKY, a little over half way through his stint in office, out did himself with a needed flip to a second page to introduce this month's program. One of Rochester's other highly active radio clubs, the Rochester VHF Group, will grace the RARA membership with a program focused on VHF, UHF Contesting and (their shouting) ROVING. Representing the Grouper's were Mark Hoffman K2AXX and Jim Howard N2JMH; Mark, a well-known contest rover who at the time had a 30 foot tower on his van and 300 watt VHF amplifiers, a little over the top for this time period. "Not done yet" was Peter Fournia's cry as his evening of writing for the Rag continued with an article telling of a plan to demonstrate PSK operation at the upcoming Rochester Hamfest. Writing for the Rochester Amateur Packet Society (RAPS), Peter told that the Society would be represented by Professor Bill Hopkins AA2YV, who planned a talk and demonstration using this new and popular keyboard to keyboard mode. Those wishing to volunteer a few hours at this three day event could contact Jack Tripp W2JAT. We heard from Norm Turner WB2LQB, informing us that a recent severe snow storm didn't stop the RARA License classes and the students are well on their way to a planned test session on May 14th. Continuing with Part three of his four Part Article on Hamfest Programs for the three day Rochester Hamfest and Atlantic Division ARRL Convention was Lloyd Caves WB2EFU (N2PU), who additionally, if we haven't said so lately, is also Editor of the RARA Rag, who in this issue detailed firm and final plans for five additional programs. Ed Gable K2MP, in his monthly DX/Contesting column, wrote in such a manner that reliving his words today make our current crop of DX'ers salivate in the thought of DXpeditions gone-by. He wrote in part about the return of Chuck, 3Y0C, from Bouvet, who could only operate sometimes for 5 minutes at a time between work. IOTA was a big activity

then with E29AL on Koh Tarutao Island, AS-126. We all remember the Melish Reef, VK9MI, and their activity, but the announcement of an all new entity, Chesterfield Island, was the uncontrolled buzz of the era. Then, too, there are the naughty boys out there who like to shake things up a bit and keep people

guessing. It seems STOP was a legit operation while operating a few KHz down, SONY was a dud. And a little tid-bit, the ARRL DXCC program began in 1937. We already mentioned Bill Hopkins, AA2YV, earlier regarding his future PSK talk at the Hamfest, but this issue found Bill writing again on one of his restoration projects. This time he told of a lengthy task of bringing a tired BC-348 receiver back to life. Readers enjoy Bill's style of mixing some technical problems he has solved but also he brings to life the history and use of the item in question. Bill continues to do that today with a column in each issue of the Antique Wireless Association's quarterly publication The AWA Journal. Another AWA member and Rag author was Allan Pellnat, KX2H, who often posted articles on local radio related businesses in the Rochester area. This time we find Allan writing to describe a new AWA Museum exhibit called the "Made in Rochester" display. There, said Allan, "You will find names tied to the area that included Stromberg-Carlson, WHAM, Melophone, Cel-Met, Straitline, RF Communications and other fine companies still contributing today or just offering fond and pleasant memories. With regret it was then reported that Lee Zwack W2WPF and Wes Jackling W2YUT, were reported as Silent Keys. Wes Jackling was RARA President in 1950/51. From the Want Ads you could buy a fully loaded Icom 751A from Ed Gable, K2MP, for \$425.00. Our featured commercial advertiser this month was Glenwood Sales on Hague Street in Rochester. This was a favorite Saturday morning stop where you would find hams pouring through bins of new and used surplus electronic parts.



the RARA RAG

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ROCHESTER AMATEUR RADIO ASSOCIATION, INC.

VOL 53 APRIL 2001 NO. 8

VHF And VHF Contesting At The April RARA Meeting

Peter Fournia, W2SKY

The topic at our April 6th meeting is best summarized by Mark Hoffman's (K2AXX) email: "We are on for April — Myself and N2JMH (Jim Howard) will be teaming up to talk about VHF, VHF Contesting and ROVING! Jim is our famous rover, who travels around with a 30' tower on top of his van, with 300w on 2 meters! He's got some interesting stories to tell."

Mark and Jim are active members of the Rochester VHF Group. RVHFG is the hotbed of amateur VHF, UHF and microwave expertise in Rochester. One of the most popular activities is the ARRL's VHF Sweepstakes in late January. This is the grand daddy of VHF contesting that brings insanity to VHF contest enthusiasts. The Rochester, NY area is one of the most radioactive hot spots during this period radiating RF energy from 50 MHz to light. Those of us conveniently operating on FM are clearly aware that much more is happening on the VHF bands. We hear the rover contacts in FN 2,3,12,13,14,22,23 grid squares. We also hear QSY arrangements planned for 50 MHz, 220, 440, 900, 1.5 Gig frequencies. The familiar question arises. Who are those guys?

Here is your chance to find out. Our speakers, Mark and Jim are two of those "wild and crazy guys". They will be addressing our curiosity about this high-energy activity with pictures and stories about the VHF+ bands.

Mark will focus on the VHF bands, their characteristics and uniqueness as he steps from 50 MHz to light. He will address what we can expect from VHF+ operation... things like, propagation, band-by-band comparisons of distance & activity. Mark will cover some typical equipment you'd find at Hamfests that can get you on the weak-signal segments. What is VHF contesting like, outside the FM only categories?

Jim will focus on roving with description of equipment, preparations and stories of operating in the corners of those remote grid squares. How do you get 6-8 VHF+ bands operational in a van? Can

continued on page 7

Hamfest Programs – Part III

Lloyd R. Caves, WB2EFU

The end of March and the first of April should mark the end of any more snow, or at least any major accumulation. April Fools Day does have its advantages and most of us have seen enough of the white stuff for this season. Along with the nicer weather we are now just two months away from the largest Hamfest in the area. The Rochester Hamfest/Atlantic Division Convention, which will be held at the Dome on June 1, 2, and 3, is brought to you by RARA. Make sure to support your club's activities by attending the Hamfest.

As part of the Hamfest activities the Awards Banquet is to be held Friday evening at the Marriott Hotel on West Henrietta Road. Awards will be given for The Ham Of The Year and Technical Achievement for the ARRL Atlantic Division. It is time to nominate the person or persons that you would like to receive these awards. For further information and nomination forms contact Bill Edgar, N3LLR, Atlantic Division Vice-Director. Order your banquet tickets in advance so that you can enjoy the evening's festivities.

In the past two months this column has listed some of the programs that will be taking place during the Hamfest. The following is the remainder of the programs that you can enjoy:

VHF Forum:
The Rochester VHF Group is proud to sponsor the 1st "VHF Boot Camp", with discussions on Basic VHF Propagation, Transverters vs. Transceivers for VHF operation, Satellite Operation and even a

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RARA Meeting

April 6, 2001

Henrietta Fire Hall,
3129 E. Henrietta Rd.

VHF And VHF Contesting

Presented by
Mark Hoffman, K2AXX And
Jim Howard, N2JMH

This issue of the 1981 Rag was special in two ways in that the meeting was the very popular RARA Old Timer's Night as well as landing on the 50th Anniversary of RARA itself having been formed in 1931. Old Timer's nights back then really came to light when Bruce Kelley, W2ICE (sk), RARA Historian and Co-founder of the AWA in 1952, took to the stage and with a familiar and friendly booming voice kept folks on the edge of their seats as stories were told and Rochester ham radio history revisited. Nobody could do it better and few tried. In his writing for the Rag Bruce told of the turmoil local ham clubs were in during the pre-RARA days of 1926 to the early 1930's. There were splinter groups meeting in homes, at the old WHQ site in the Times Union building, and elsewhere but unresolved matters of dues, use of Roberts Rules of Order, Club stations, hamfests and other topics prevented progress in the fostering of a cohesive Rochester Amateur Radio community. Finally cooler heads prevailed and it was time to bury the past and to start anew in 1931, with an all new club organized as the (your) Rochester Amateur Radio Association, going strong after ninety years. Otto Bluntzer, WB2RJB, then Field Day Chmn for 1981, along with Don Drennon W2EBF (sk), wrote to inform and urge members to join the RARA Field Day operation this year. Work sessions to build dipole antennas were planned. A large reorganization of the Office of Emergency Preparedness (OEP), formally Civil Defense, was announced by the County of Monroe with Brig-General Edward Smith appointed Director. From our ranks we learned that Steve Gulak, N2DZS, was named as Communications Officer. At the same time a RARA - OEP Liaison Committee was named headed by Ed Holdsworth N2EH (sk). Ed wrote in this issue to inform of planned public service activities so far to date as: the STPR Road Rally, the Mendon Pony Club Rally, the National Sports Festival, the Scotch Bonnett Yacht

Race and the Canaltown days. A new group of local YL Hams has been organized by Lia Zwack, WA2NFY, and they call themselves the Second Area Young Ladies Amateur Radio Club, or SAYLARC. They plan 75 and 40 meter phone nets. Mr. Peter Chaston, Director of the National WX Service in Rochester, urged RARA members to support their office by becoming involved with their organized WX Spotters group, later to turn into the nationally recognized Skywarn System. Those interested should contact the Monroe County Emergency Coordinator George Negus, K2OUI (sk). A new Six meter repeater was reported on-the-air in the Rochester area signing W2TR/R on 53.6 Mhz. It was nice to see Dwight Hill, K2KWK (sk), actively writing again, this time with a nice article titled "Why I Like CW." Tickets are now available for the two day 1981, Rochester Hamfest and ARRL Atlantic Division and NYS Convention said ticket Chairman Ed Gable, K2MP. Jim O'Brien, K2UDT, reported on the status of the RARA QSL cards as being out of committee and in the hands of the artist who is generating a stylistic depiction of a circuit board made with components as downtown city buildings. From the Want Ads you could buy a SB-101, with power supply, from Bruce Frank, KA2EFR, for \$250.00. A new commercial advertiser was Norm Webb, K2PPO, offering Amateur and Commercial repair services.

The RaRa Rag

Published by
The Rochester Amateur Radio Association
INCORPORATED

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NO. 8

SPECIAL OLD TIMERS NITE — APRIL 3rd OUR CLUB'S 50th ANNIVERSARY

RaRa Historian, Bruce Kelley, W2ICE, will present another of his fine programs "A PICTORIAL TRIP IN NOSTALGIA." He plans to take us at a brisk pace through:

- RaRa in the '30's.
- Hamfests at "Doud Post" and "Vince's 50 Acres".
- Early RaRa Field Days.
- Rochester VHF stations and DX stations in the '50's.
- Hamfests of the present, at the Fairgrounds, flea market activities and the big banquet.
- Recognition of old timers (pre-1961).

The RaRa old-timers-nite is the annual occasion to meet your old friends and of course new ones.

Since this is our club's 50th anniversary, we request all Past Presidents to be present for some photographs.

We hope to see all of you at the Statesman's Club on the 19th Floor of the First Federal Savings & Loan Building on State and Main. See previous issues of the Rag for details on parking, it's free under the First Federal Building.

RaRa CELEBRATES 50th ANNIVERSARY

Part II
by Bruce Kelley, W2ICE, ex-8ACY

RaRa was formed by two clubs joining in 1931: The Radio Club of Rochester and the Society of Rochester Transmitting Amateurs (STRA). The following information was written by Ken Gardner, W2BGN, RaRa's first secretary and a member of STRA.

In a future issue of the RAG, I will tell you more how members of STRA and the Radio Club of Rochester got together and formed RaRa.

"1926 was a year of turmoil within the Radio Club of Rochester. All activities were open to discussion and vote of membership. Interminable arguments developed regarding running the club, use of Roberts Rules of Order, dues, where to meet, should the club sponsor a station, hamfests, etc. The club at this time was largely controlled by inactive hams.

In early 1927, a group of the more active hams started to meet in one another's homes. They eventually adopted a name, The Society of Rochester Transmitting Amateurs. This original group consisted of Al Balling, Bill DeWitt and Ken Gardner. Others soon joined, and through the efforts of Bill DeWitt and Al Sigl of the *Rochester Times-Union*, a club room was established on the fourth floor of the old T-U building at the corner of Basin and Exchange Streets.

This was also the old site of former T-U station WHQ. Al Sigl was City Editor at the time and Bill DeWitt wrote a radio column for the T-U.

Al Balling was elected the first president and the club functioned without dues; however, all members paid a \$7.50 initiation fee and were assessed for various financial needs.

A club station was assembled in May, 1927, by 8BGN and 8BRD from parts donated by members, chief of which was a 204 high power transmitting tube and a 2000 volt motor-generator set from Joe Hertzberg, 8CYI.

(Continued on page 3)

HAMFEST TICKETS AVAILABLE

RaRa members and friends can be first to secure tickets for the 1981 Rochester Hamfest. The Hamfest will be on May 15 - 16. It is combined with the Atlantic Division and New York State ARRL Convention. Get your tickets at the April 3rd club meeting from ticket chairman, Ed Gable.

VE TEAM

Testing on Saturday April 17th

At a **NEW LOCATION**

Damascus Shriners
979 Bay Rd, Webster, NY 14580
With COVID Restrictions
Please Read Carefully!

A **COVID Questionnaire**

Must be Filled Out Either On-site or
Prior to Attending

Online Preregistration is required
The session size is limited to 20

Click to register:

<https://hamstudy.org/sessions/602ec37d243e0b41d00999c9/1>

Applicants must supply their own PPE
(Mask is a minimum), pen, pencil, calculator and
be COVID negative and symptom free

Testing begins at 10:00AM.
Testing is free!

CW ELMERS

Name	Call	Area	Email
Ned Asam	W2NED	Pittsford	w2ned@frontiernet.net
Tim Brown	WB2PAY	Ogden	tjbrown@rochester.rr.com
Pete Fournia	W2SKY	Penfield	pfournia@gmail.com
Bill Hopkins	AA2YV	Brighton	whopkin4@naz.edu
Bob Karz	K2OID	Webster	rkarz@rochester.rr.com
Joe Rowe	AG2Y	Webster	ag2y@rochester.rr.com
Harry Williams	KF2TV	Webster	harryw7872@gmail.com

LICENSE TEST RESULTS

Suzanne Bishopp	KD2VYO	G	Richard Goodness	KD2VYP	T
Shannon Griffin	KD2VYJ	T	James Hauenstein	KD2VYQ	G
Seward Heckman Jr	KD2VRU	G	Paul Holley	N2IZU	G
Henry Kears	N2JDP	G	Benjamin Kennerknecht	KD2VYR	T
Quinn Lawrence	KD2VYH	T	Brett Machamer	KD2VYS	T
Joseph Parshall	KD2VYT	T	Cristian Peter	KD2VYI	T
Lawrence Roth	KD2VYK	T	David Skeldon	KD2VYL	T
Patrick Stagles Jr	KD2VYM	T	Mark Vernacotola	KD2VYN	T

New licensees names are in BOLD

RADIO ELMERS

Name	Call	Area	Email
Tim Brown	WB2PAY	Ogden	tjbrown@rochester.rr.com
Dave Carlson	N2OA	Batavia	kdcarlso@gmail.com
Lawrence Hill	N2AJX	Henrietta	lawrence.hill@rit.edu
Rich Hoffarth	K2AXP		rhoffarth2000@yahoo.com
Bill Kasperkoski	WB2SXY	Pittsford	wb2sxy@gmail.com
Don Kiser	AC2EV	N Greece	dkiser100@gmail.com
Karl Heinz Kremer	K5KHK	Chili	k5khk@khk.net
Tim Magee	WB2KAO	Greece	585-704-5747
Mike Moore	KC2NM		mikemoore@ieee.org
Peter Schuch	WB2UAQ	Perinton	pschuch@rochester.rr.com
Forest Shick	WA2MZG	Webster	fshick3@gmail.com
Dave Timmons	W2DST	N Greece	dstimmons@gmail.com
Steve Verzulli	KA1CNF		verzulli@yahoo.com
Dan Waterstraat	W2DEW	Henrietta	higreen@rochester.rr.com

RARA CALENDAR

TIM BARRETT, K9VB, MEMBERSHIP SECRETARY

April 2021						
Sun	Mon	Tue	Wed	Thu	Fri	Sat
				1 RTTYOPS Weeksprint SKCC Sprint Europe NRAU 10m Activity Contest SARL 80M QSO Party QRP Foxhunt NCCC Sprints	2 K1USN Slow Speed Test	3 ROC City Net 28.405 MHz, 7:30p MS LA QSO Parties PODXS 070 Club PSK31 Ctest Florida State Parks on the Air SP DX Contest EA RTTY Contest
4 MS LA QSO Parties PODXS 070 Club PSK31 Ctest Florida State Parks on the Air SP DX Contest EA RTTY Contest NA SSB Sprint Contest DARC Easter Contest	5 AWA Net 145.110 MHz, 7pm VHF Group 9pm 144.260 SSB WW SSB Activity Contest 144MHz Spring Sprint OK1WC Memorial Contest ARS Spartan Sprint	6 RTTYOPS Weeksprint Phone Weekly Test Fray	7 RaRa Monthly Mtg ONLINE 7pm ROC City Net 1.923 MHz, 7 pm CW Ops Mini-CWT Test VHF/UHF FT8 Activity Contest RSGB FT4 Contest	8 RaRa BoD 6:30pm ONLINE ARES Net 146.610 MHz, 7pm VHF Group 9pm 50.200 USB RTTYOPS Weeksprint NCCC Sprints	9 K1USN Slow Speed Test	10 ROC City Net 28.405 MHz, 7:30p RARA Academy: EME and Sats QRP ARCI Spring QSO Party DIG QSO Party, CW IG-RY Worldwide RTTY Contest FTn DX Contest OK/OM Contest SSB SKCC Sprintathon NE NM ND GA QSO Parties Yuri Gagarin DX Contest
11 DIG QSO Party, CW IG-RY Worldwide RTTY Contest FTn DX Contest OK/OM Contest SSB SKCC Sprintathon NE NM ND GA QSO Parties Yuri Gagarin DX Contest	12 AWA Net 145.110 MHz, 7pm VHF Group 9pm 144.260 SSB WW SSB Activity Contest OK1WC Memorial Contest RSGB Club Contest 80M, CW	13 RTTYOPS Weeksprint Phone Weekly Test Fray 222MHz Spring Sprint	14 ROC City Net 1.923 MHz, 7 pm VHF/UHF FT8 Activity Contest CW Ops Mini-CWT Test	15 ARES Net 146.610 MHz, 7pm VHF Group 9pm 50.200 USB RTTYOPS Weeksprint NCCC Sprints	16 K1USN Slow Speed Test	17 ROC City Net 28.405 MHz, 7:30p Holyland DX Contest ES Open HF Championship Worked All China Contest YU DX Contest CQMM DX Contest MI ON QSO Parties EA-QRP CW Contest Texas State Parks on the Air
18 World Amateur Radio Day IARU ARRL Rookie Roundup Holyland DX Contest ES Open HF Championship Worked All China Contest YU DX Contest CQMM DX Contest MI ON QSO Parties EA-QRP CW Contest Texas State Parks on the Air	19 AWA Net 145.110 MHz, 7pm VHF Group 9pm 144.260 SSB WW SSB Activity Contest OK1WC Memorial Contest	20 RTTYOPS Weeksprint Phone Weekly Test Fray	21 ROC City Net 1.923 MHz, 7 pm CW Ops Mini-CWT Test	22 ARES Net 146.610 MHz, 7pm VHF Group 9pm 50.200 USB RTTYOPS Weeksprint 432MHz Spring Sprint	23 K1USN Slow Speed Test	24 ROC City Net 28.405 MHz, 7:30p 10-10 Spring Contest SP DXC RTTY Contest Helvetia Contest Florida QSO Party QRP to the Field
25 10-10 Spring Contest SP DXC RTTY Contest Helvetia Contest Florida QSO Party International Vintage Contest, HF BARTG Sprint 75	26 AWA Net 145.110 MHz, 7pm VHF Group 9pm 144.260 SSB WW SSB Activity Contest QCX Challenge	27 RTTYOPS Weeksprint Phone Weekly Test Fray RTTYOPS Weeksprint	28 ROC City Net 1.923 MHz, 7 pm UKEICC 80M Contest	29 ARES Net 146.610 MHz, 7pm VHF Group 9pm 50.200 USB RTTYOPS Weeksprint	30 K1USN Slow Speed Test	

NEWS FROM AREA CLUBS

MONROE COUNTY ARES / RACES NEWS

Monroe County Amateur Radio Emergency Service (ARES)® is an amateur radio public service organization based in Monroe County, New York, and is open to all licensed amateur radio operators. Monroe County Radio Amateur Civil Emergency Service (RACES) is a program of the Monroe County Office of Emergency Management. We participate in training and emergency exercises so that we can serve other agencies during times of communication failure.



The Monroe County Amateur Radio Emergency Service, Inc. holds its meetings on the fourth Thursday of each month except in July, August, November and December. Anyone interested, members and non-members, are welcome to attend.

Until further notice, our meetings are via Zoom. Please check our website for any schedule changes. Prospective members can request an invitation by email to: secretary@monroecountyemcomm.org.

Monroe County ARES/RACES meets on the air every Thursday of the month at 7:00 PM, on the N2MPE 146.61 MHz (-) 110.9 Hz PL and 444.45 (+) 110.9 Hz PL repeaters. Our club callsign is WB2EOC.

There is no net on nights when we hold our regular meeting, generally on the 4th Thursday of the month.

WEB: www.monroecountyemcomm.org

Facebook : Monroe County Amateur Radio Emergency Service, Inc.

Twitter @MCARESNY

Severe Weather Alerts: Winter may bring severe weather in the form of heavy snow storms, strong winds, and flooding. If you experience severe weather, especially when accompanied by damage to property in your area, listen to your local ARES/RACES repeaters for information. While official ARES/RACES activation could be a possibility, it is more important that we open a spontaneous net simply to share information about weather conditions in your immediate area. Don't wait for someone else to do it. Pick up the microphone and start a net. Have each check-in station give you a situational awareness report and emergency power report. If you don't have a copy of the directed net protocol, you can find one at the WEB address listed above. (Activities/ARES Net/ Net Script/ Downloads). We encourage all amateur radio operators to take a free Skywarn TM class offered by the National Weather Service. The schedule of classes can be found at <https://www.weather.gov/buf/skywarn>

Monroe County ARES
Ralph Dutcher, Net Control - KD2BDZ@arri.net

ROCHESTER DX ASSOCIATION, RDXA

Tuesday 20 April, 2021 - RDXA zoom meeting
- 7:30pm.

Program: TBA

Login information can be found on our website
- rdxa.com



ROCHESTER RADIO REPEATER ASSOCIATION

The Rochester Radio Repeater Association, RRRA will not be having its regular meeting on April 16th due to the Pittsford Town Hall's meeting room being closed. However, the club is having Zoom meetings on our regularly scheduled meeting nights on the 3rd Friday of each month starting at 7:30PM lasting 40 minutes. All paying and non-paying members should receive an invite in their email. All you have to do is hit the link in your email, or go to zoom in your browser and type in the meeting ID number and pass code and you're in. You may have to install the Zoom client when prompted. Or go to <https://zoom.us/download>. Remember to activate your video & audio from the bottom of the screen so everyone can see and hear you. If you use the android client for your cell phone you will only be able to see a max of 4 pictures on the screen at a time. If you use the windows client you can have as many as you want. We are currently attempting to modify our club bylaws to resume all our regular meetings on Zoom until Covid-19 passes.

ROCHESTER VHF GROUP

You are invited to join us on-line & on-the-air! We're here to help you to use the license that you worked so hard to get.



Check out what we do by visiting our website at <http://RVHFG.org> to start.

Join our e-mail group by sending a message to RVHFG+subscribe@groups.io.

**Join our weekly on-the-air nets on SSB:
2 meter band - Monday 9 PM 144.260 USB
6 meter band - Thursday 9 PM 50.200 USB**

**No VHF SSB radio (yet) to join the nets?
Log-in to Echolink [ka2ene-L #23426](#)**

We can help to answer the question, "What radio should I buy?" Here's a list of HF+++ radios, those with the HF bands and at least three VHF bands, giving you access to all sorts of VHF fun. Research each one to see which serves you best. Ask questions on our email list. We're here to help!

Yaesu FT-100D	Yaesu FT-817	Yaesu FT-818
Yaesu FT-847	Yaesu FT-857	Yaesu FT-897
Icom IC-706MKIIG	Icom IC-7000	Icom IC-7100
Icom IC-9100	Kenwood TS-2000	

Some are older models and some are newer models, but all provide access to the 6 meter, 2 meter, and 70 centimeter bands using both traditional FM and the exciting narrow-band SSB mode that supports unexpectedly long-distance (100's of km's routinely and 1,000's of km occasionally) VHF communication. These are good all-around radios no matter what club you end up affiliating with later. We hope its us.

XRX AMATEUR RADIO CLUB

The XRX Amateur Radio Club meets the 2nd Thursday of each month. The meetings are 6PM at the Webster Recreation Center. Look for details on our website <http://xarc.us>

AMATEUR RADIO ASSOCIATION OF THE SOUTHERN TIER, ARAST

ARAST meets the third Thursday of every month at the Town and Country Fire Department on Gardner Rd in Horseheads, New York. Our Chemung County ARES (CCARES) organization meets the first Tuesday of the month except February on Harris Hill, next to the National Soaring Museum. Both organizations serve amateurs in Chemung, Steuben and Schuyler counties in New York and Bradford and Tioga counties in Pennsylvania. All are welcome to attend our meetings.

Both CCARES and ARAST monthly meetings are being held online until further notice. Check out the Upcoming Events at our website, www.arast.info, for details.

Our 2021 Hamfest is set to take place at the Chemung County Fairgrounds in Horseheads, New York, on Saturday, September 25, 2021.

Don't forget to check out our repeaters when you visit the area. N3AQ 147.36(+) and the W2ZJ 146.70(-) are the principal 2-meter repeaters. The latter can also be accessed via Echolink node 574415 with the call sign KD2QND-R. A full list of repeaters that can be heard in the Twin Tiers area surrounding Chemung County can be found at

http://www.arast.info/arast_website/public/repeaters.php.

We also invite you to check out our new 6 meter net on Wednesday evenings at 9 p.m. local time on 50.200 MHz USB. The net usually lasts approximately one hour. Operators are encouraged to check in and participate in the round table discussions or simply stop by from time to time. Topics are wide-reaching and are not confined to 6 meters--although discussions tend to center around 6-meter equipment, antennas, propagation, latest band openings and grid squares worked, as well as AM, FM and FT-8 use of the 6-meter band. We would welcome more participation from the western part of our area.

COMMUNITY AMATEUR RADIO CLUB, CARC

If you are interested in being a part of this forward thinking and active club, visit us at a meeting or join us on one of our weekly nets. We meet at the Hoag Library (134 S. Main St. Albion, NY) on the first Saturday of each month at 7PM. Each meeting has a brief training/refreshers period with upcoming topics including: net protocol, repeater set-up/maintenance, and digital signaling. The club holds a net every Sunday evening at 8pm (winter) and 9PM (summer) - 0100 UTC Monday - on 147.585 simplex, and we host the Thursday Night Social Net, Thursday at 8:30PM on 147.285+. We'd love to hear you check-in!

DIGITAL COMMUNICATIONS ASSOCIATION OF PERINTON, DCAP

DCAP members continue to experiment with leading edge digital communication modes. We were formed in 1994 to foster the development of local and regional packet radio networks using AX25 and TCP/IP. Today we have members using the club sponsored DSTAR repeater (KB2VZS on 444.8MHz), several personal and publicly accessible DSTAR hotspots, Yaesu System Fusion systems on non-club repeaters and DMR systems through repeaters and personal hotspots. DCAP members meet for breakfast at 7AM nearly every Saturday morning at Rikki's Family Restaurant in the village of Fairport and everyone is welcome to join us. Talk in is on the KB2VZS analog repeater on 146.715MHz with a PL tone of 110.9Hz.

DRUMLINS AMATEUR RADIO CLUB

The Drumlins Amateur Radio Club meets every third Wednesday of the month at 7:30 PM at the Wayne County EMO/Sheriff's Office 7376 State Hwy 31 #1000, Lyons, NY 14489. Doors open at 7 pm, meeting starts at 7:30 pm. Announcements will be made on the 146.685 repeater. The Drumlins ARC website address is <http://drumlinsarc.us/>

KEUKA LAKE AMATEUR RADIO ASSOCIATION, KLARA

The purpose of our association is to:

- promote interest in Amateur Radio communication and advancement of the radio art.
- conduct programs, training, and exercises that enhance the skills of the members, and educate the community.
- develop ties with other services and establish relationships with community organizations.
- provide emergency communication services.
- promote enjoyable Amateur Radio related events.

The association was incorporated in 1991 and has been a vibrant part of the community ever since. We have a very active VE testing program. We also participate in numerous public events (the Wineglass Marathon and the Wine Country Classic Boat Regatta are two of the largest).

The Keuka Lake Amateur Radio Association Hamfest is scheduled for August 21st at the Howard Community Center and we will have testing for anyone wanting to be a new Ham or upgrade!. For those who want to we offer free camping Friday night, Saturday night and leave by noon Sunday. All part of your Hamfest ticket. Contact KLARA via email if you wish to camp. Hope to see you at the friendliest little hamfest and a great breakfast shared with awesome Hams!

ORLEANS COUNTY AMATEUR RADIO CLUB

The Orleans County ARC meets every 2nd Monday of the month at the Orleans County Emergency Operations Center, 14064 West County House Road, Albion, NY 14411. Doors open at 6:00PM, meeting starts at 7:30PM. Anyone with an interest in amateur radio is welcome. Program topics vary from month to month.

The club has an open two meter net every Tuesday night at 9:00PM local time on the club repeater, WA2DQL/R (145.27 -600KHz offset, 141.3 tone). Everyone is welcome to check in.

See the club website <http://ocarc.us> or contact club Secretary Ron Craig, N5BNO for more information.

THE AMATEUR'S CODE

Originally written by Paul M. Segal, W9EEA (1928)

THE RADIO AMATEUR IS:

CONSIDERATE	Never knowingly operating in such a way as to lessen the pleasure of others.
LOYAL	Offering loyalty, encouragement and support to other amateurs, local club, and the American Radio Relay League, through which Amateur Radio in the United States is represented nationally and internationally.
PROGRESSIVE	With knowledge abreast of science, a well built and efficient station and operation beyond reproach.
FRIENDLY	With slow and patient operation when requested, friendly advice and counsel to the beginner, kindly assistance, co-operation and consideration for the interests of others. These are the hallmarks of the amateur spirit.
BALANCED	Radio is an avocation, never interfering with duties owed to family, job, school or community.
PATRIOTIC	With station and skill always ready for service to country and community.

SQUAW ISLAND AMATEUR RADIO CLUB, SIARC

The Squaw Island Amateur Radio Club (SIARC) meets every second Wednesday of the month at 7:30PM at the Ontario County Safety Training Facility, 2914 County Road 48, Town of Hopewell. We have License Exam Testing every other month which begins at 6:30PM. The meeting for Wednesday, April 14th will be outside at the Safety Training Facility hopefully. We will start the meeting at 6:30 PM this month. Masks and social distancing will be required. Please bring a chair for outside. There will not be License Exam Testing. Check the SIARC website for updates

SIARC is also holding a Health and Welfare NET Monday through Friday each week at 2000 hours on the SIARC 146.820 repeater (located in Canandaigua, NY), Tone 110.9. This net is to pass along general information and keep hams in touch. All hams are invited to participate.

GENESEE VALLEY AMATEUR RADIO ASSOCIATION

Email n3dsp@lafireline.net for details.

INTERLOCK ROCHESTER - K2HAX - ROCHESTER'S HACKERSPACE

Visit our website at <http://www.interlockroc.org/>,
contact us at info@interlockroc.org,
or find us in #interlock on Freenode IRC.

ROCHESTER MAKERSPACE

For more information visit <https://www.makerspacerochester.org/hamradio>

ASTRONOMY SECTION ROCHESTER ACADEMY OF SCIENCE

For more information visit <http://www.rochesterastronomy.org/>

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MAY RAG DEADLINE

APRIL 15, 2021

RARA MEETS AT 7PM ON THE FIRST

WEDNESDAY OF EACH MONTH.

JOIN US ON-LINE AT:

<https://attendee.gotowebinar.com/register/5971661369422877451>

CONTACT WEBMASTER@ROCHESTERHAM.ORG FOR SUPPORT

Rochester Area Repeater Listing

THE RARA RAG

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